Public Works (1896). Department.

G.O., No. 1709 / 171

DATED 15/2/96

[Despatch Abstract.]

No I Periyar — Progress report of works in — for December 1895, recorded and forwarded to the Govt of India

## BACK PAPERS.

| G.O. | No. | Department. | Date. | G.O. | No. | Department. | Date. |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

## FURTHER PAPERS.

| G.O. | No. | Department. | Date. | G.O. | No. | Department. | Date. |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

**Irrigation.**

READ—the following paper :—

From H. T. KEELING, Esq., Superintendent of Works, No. I Periyár Division, dated Periyár, 8th January 1896, No. 175 C.E.

PROGRESS REPORT FOR DECEMBER 1895.

*General.*—A ring bund at No. 1 lock to shut off the water from the sluices was begun on the 9th and completed on the 22nd, the level of the top being + 125. Meanwhile, the lake discharged through the vent in the main dam. When the water was shut off the front shutter was cleared of debris and examined. The damage was as follows : the four cast iron brackets which hold the straining bars attached to the lifting rails on the two westernmost swinging shutters were broken. The two shutters were found shut and silt deposited against them to a depth of nearly 3′ on the sill. Of the eight straining bars on the other four swinging shutters, only three were found undamaged. The pins on which these six shutters hinge were clogged with weed. The breakages were caused by tree stumps and small logs, any one of which would have passed through an opening 3′ × 2′. This size of opening is that of the proposed screen, but the condition in which the front shutter wa found seems to call for something smaller. I don't think it will be found possible to work the front shutter, unless the openings in the screen are reduced to at least 6″ × 6″. The shutter was hoisted and the erection of the lower vent gates proceeded with. The western lower gate was completed with the exception of tarring and one or two bolts by the 28th ; this gate was attached to the lifting rod and kept raised 2′ to pass the drainage from the cutting. Some further dressing of the groove is required before the gate can be lowered right down. The eastern gate was completed with the exception of the side covering plates and lowered by the 29th. It was attached to a chain passing round a winch in the sluice house. The lake continued to fall at the rate of 20′ in twenty-four hours up to 6 P.M. on the 29th, at which time the level was 122·20. It was stationary until midnight when it began to rise and by 6 A.M. reached 124·40. Orders were given to block the western lower vent with plank needles and shut the main gates in order to raise the water in rear of the bund and prevent the bund breaching. The needles were only partially inserted when the lake rising suddenly the bund breached and the water rose against the shutters to lake level a discharge of about 250 to 300 cubic feet per second running through the lower vent. This subsequently increased as the head increased until the water rose in No. 1 shaft to the level of the sill of the main gates. The lake rose steadily and at 6 P.M. on the 30th the level was 128. At 6 A.M. on the 31st the lake was 130·42. The leakage through the main gates was considerable on the eastern side and on the western side practically water tight. As the pipes strutting the masonry arches were not in position and the head on the arches was 20′, I thought it advisable to raise the water level in No. 1 shaft and raised the main gates 6″. The lake rose rapidly and at noon stood at 133·33.

This rise of 3′ in six hours, added to what was running out, represents a flood of 34,000 cubic feet per second, the biggest since work was begun. The breach in the bund was about 20′ long by 3′ deep and probably increased somewhat afterwards, but at present it is impossible to ascertain exactly as it is nearly 10′ under water, the lake having risen to 134·50 by 5–30 A.M. on 1st. Beyond the delay to the completion of the sluices and the breach in the bund, no harm has apparently resulted. The Executive Engineer, Madura, has been asked if he can take more water in case it is desired to run the lake down by means of the tunnel. No more was sent down than could be helped, as I thought the rivers in the Cumbum valley must be in high flood. The rainfall producing this flood was as follows :—

| | | INCHES. | | | INCHES. |
|---|---|---|---|---|---|
| Periyár ... | 28th ... | ·30 | Thekady ... | 28th ... | 2·05 |
| | 29th ... | ·90 | | 29th ... | 3·25 |
| | 30th ... | 1·08 | | 30th ... | 3·65, measured 6 A.M., 31st. |

The rain fell at Thekady from midnight on 28th until the morning of the 31st.

*Main dam.*—This is finished with the exception of some pointing the tower at the right flank, and the vent at 112 has to be closed. The quantities put in were—

| | |
|---|---|
| Masonry ... ... ... ... ... ... ... ... | 41,785·5 |
| Concrete ... ... ... ... ... ... ... ... | 5,533·0 |
| Total ... | 47,318·5 |

Earthwork on the right flank, 30,069.

*Left Bank escape.*—The earthwork was raised to an average height of 140, 175,000 cubic feet being added during the month. The revetment was carried up to + 150. All the available labour has been diverted to this bund.

The health of the camp though still bad improved somewhat during the month.

The rainfall was at Periyár 2·71″ and at Thekady 10·05″ against an average for six previous years of 0·87″ and 1·65″, respectively. The Chief Engineer visited the work during the month.

---

True copy forwarded to the Chief Engineer, Public Works Department, Madras.

(Signed) S. D. PEARS,
Supdt. of Works, No. I Periyár Divn.

---

No. 339 C.

Transferred to the Chief Engineer for Irrigation with reference to the recent proposal to take over the Periyár project works which has been approved by His Excellency.

(Signed) D. McNEIL CAMPBELL, Col., R.E.,
Chief Engineer, P.W.D.

20th January 1896.

---

No. 29 I.

Submitted for the information of Government.

2. The accident to the shutters is to be regretted. Their working does not appear to be altogether satisfactory, and modifications in their form may be found necessary. The undersigned hopes to inspect the Periyár works shortly.

(Signed) R. R. E. DRAKE-BROCKMAN, Colonel, R.E.,
Chief Engineer for Irrigation.

27th Jan. 1896.

ORDER—No. 170 I., dated 15th February 1896.

Recorded and forwarded to the Government of India.

[Here enter No. 171 I., dated 15th February 1896.]

(True Extract.)

Under Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintendent of Works, Periyár Project.
" Revenue Department.

Exd. Shaik Karim.
Spare Copies

IRRIGATION.

# Govt. of {1896} Madras.

## PUBLIC WORKS.

*Dated February, 15th.*

*Recd.* *Encl.*

**G.O. No. 170 I., 15th Feb. 1896.**

## FEBRUARY.

### Periyar Project

Progress report of works in No. I Periyár division for December 1895, recorded and ordered to be forwarded to the Government of India.

No. 170 I., 15th February 1896.

## GOVERNMENT OF MADRAS.

## PUBLIC WORKS DEPARTMENT.

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Secretary to Govt., P.W.D.,
Irrigation Branch.

To the Chief Engineer for Irrigation.
,, Superintendent of Works, Periyár Project.
,, Revenue Department.

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ENDORSEMENT—No. 171 I., dated 15th February 1896.

Forwarded accordingly.

(By order.)

Colonel, R.E.,
Secretary to Govt., P.W.D.,
Irrigation Branch.

To the Secretary to the Government of India,
Public Works Department.

Exd. Shaik Karim.
Spare Copies

IRRIGATION.

# Govt. of {1896} Madras.

## PUBLIC WORKS.

*Dated February, 15th.*

*Recd.* *Encl.*

**G.O. Nos. 170, 171 I., 15th Feb. 1896.**

**FEBRUARY.**

**Periyar Project**

Forwarding Proceedings embodying the progress report of works in No. I Periyár division for December 1895.

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

# PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

Letter from the Superintendent of Works, NO:1, Periyar Division (H.E.NO:175.C.E. dated 8th Jany 1896)

Endst: from the Chief Engr: for Irrigtn: (H.E.NO: 29. I. dated 27-1-1896 )

Submitted for the information of Government-

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Order thereon:-

No 170 I of 15th Feby: 1896

Recorded and forwarded to the Government of India.

No 171 I of 15th Feby: 18

Forwarded accordingly.

To

The Chief Engr: for Irrigation.

" Superintendent of Works, Periyar Project.

" Revenue Department.

DESPATCHED 26 FEB 96

Periyar Project — Progress
Report for December 1895 —

Print urgently

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Rueds

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10.2.96

E I. Form No 1—1,000—27-11-95.

u/s R.10/

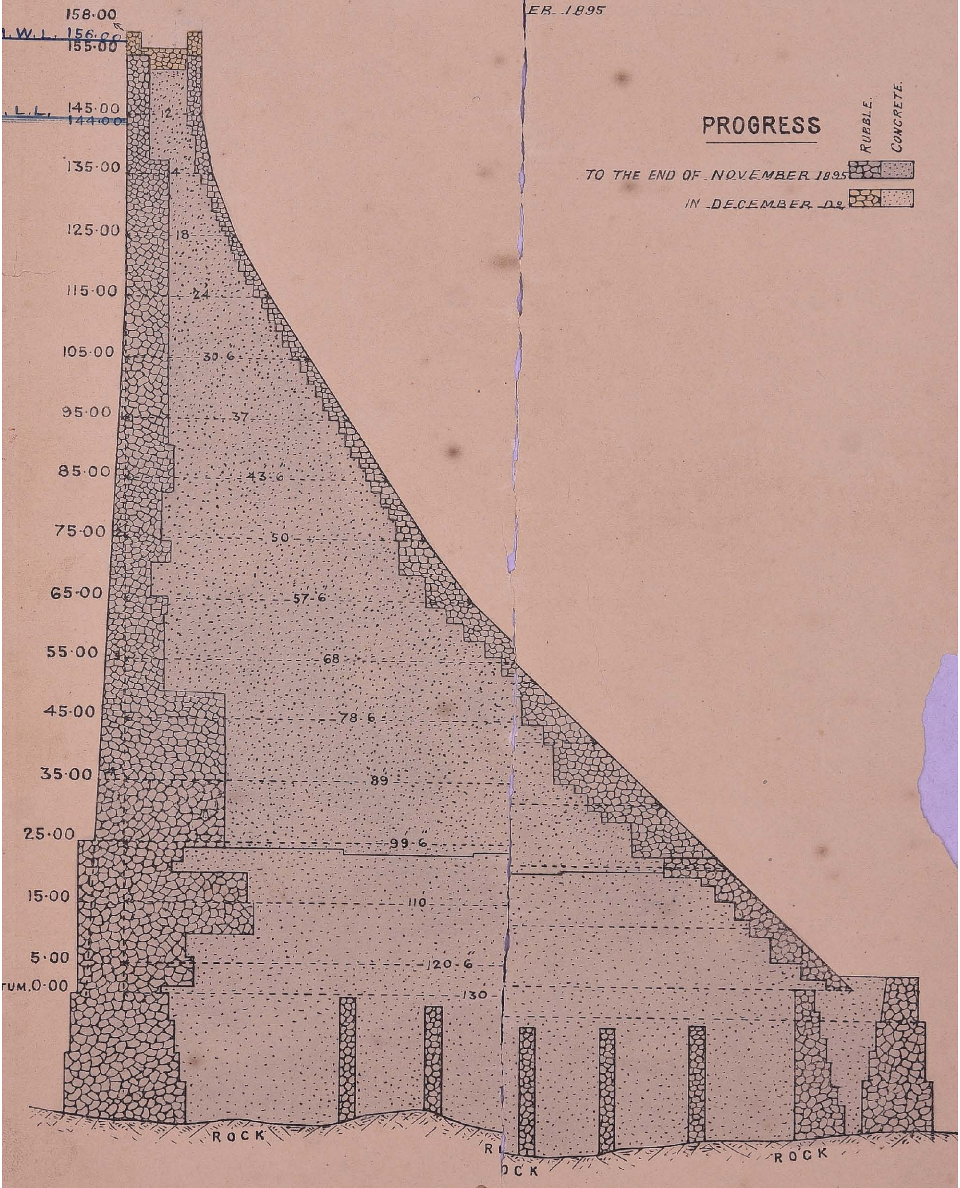
Note, copies of the
diagram not
required [illegible]

Recd fr. I. Office
14/2/96

# PERIYAR PROJECT WORKS
## MAIN DAM
### CROSS SECTION ON A.B.

*Scale 20 feet to 1 inch*

*To accompany progress report for DECEMBER 1895*




S. D. Pears.

SUPERINTENDENT OF WORKS
No. I DIVISION.

Reg: No. 778 Copies 150

P.W. Encl in desp

304/96

# PERIYAR PROJECT WORKS

## MAIN DAM

### CROSS SECTION ON C.D.

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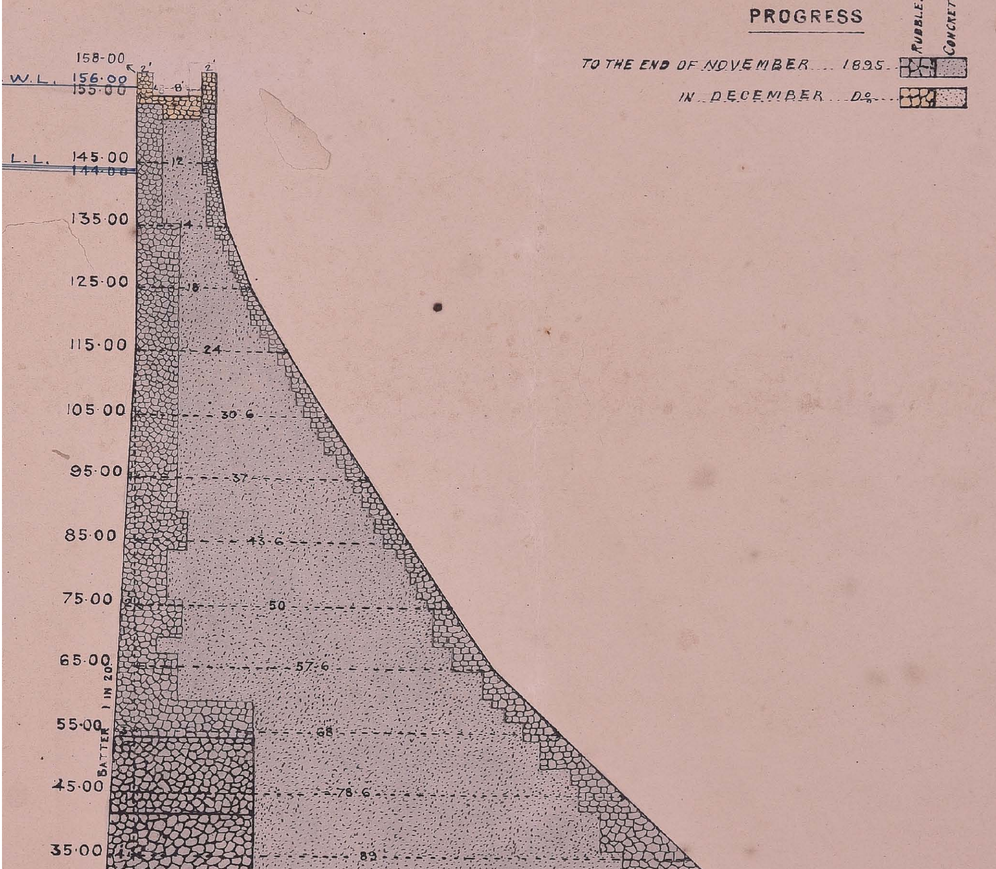
*To accompany progress report for DECEMBER 1895*




S. D. Pears.

SUPERINTE…

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304/96

# PERIYAR PROJECT WORKS

## MAIN DAM

### CROSS SECTION ON E. F.

*Scale 20 feet to 1 inch.*

10 0 10 20 30 40 FEET

*To accompany progress report for DECEMBER 1895*

**PROGRESS**

| | RUBBLE | CONCRETE |
|---|---|---|
| TO THE END OF NOVEMBER 1895 | | |
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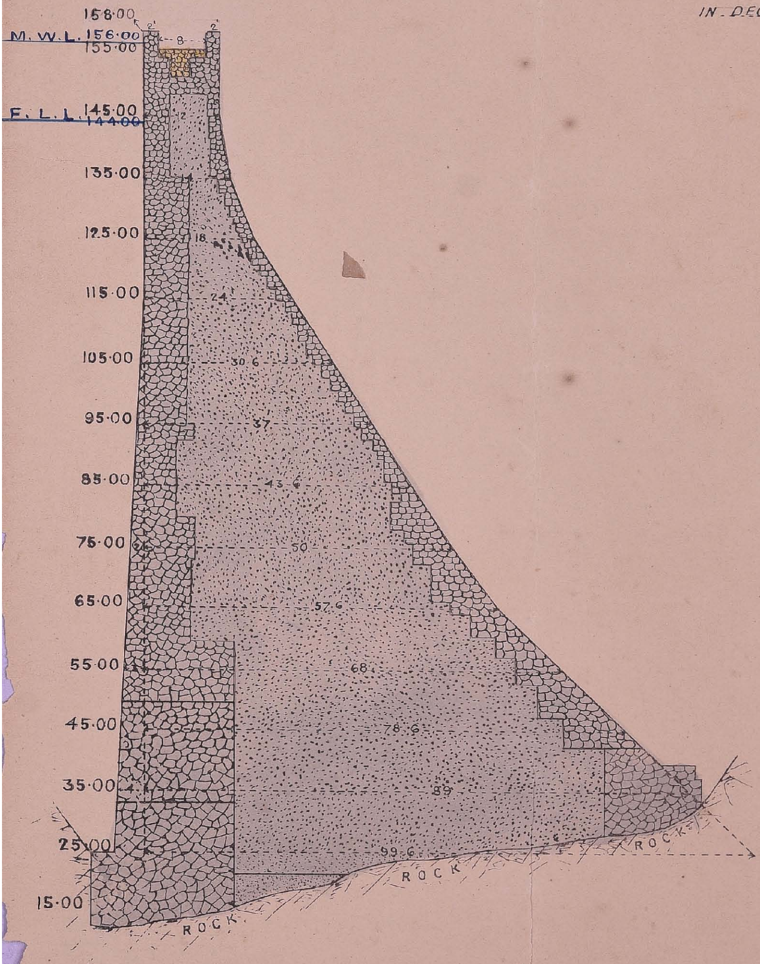


S. D. Pears

SUPERINTENDENT OF WORKS
No. I PERIYAR DIVISION

Reg: No. 780 Copies 150

Litho., Survey Office, Madras, 1893

P.W. [illegible] 39/46

# PERIYAR PROJECT WORKS

## MAIN DAM

### CROSS SECTION ON. G. H.

*Scale 20 feet to 1 inch*

10 5 0 10 20 30 40 FEET.

*To accompany progress report for DECEMBER 1895*

**PROGRESS.**

| | RUBBLE | CONCRETE |
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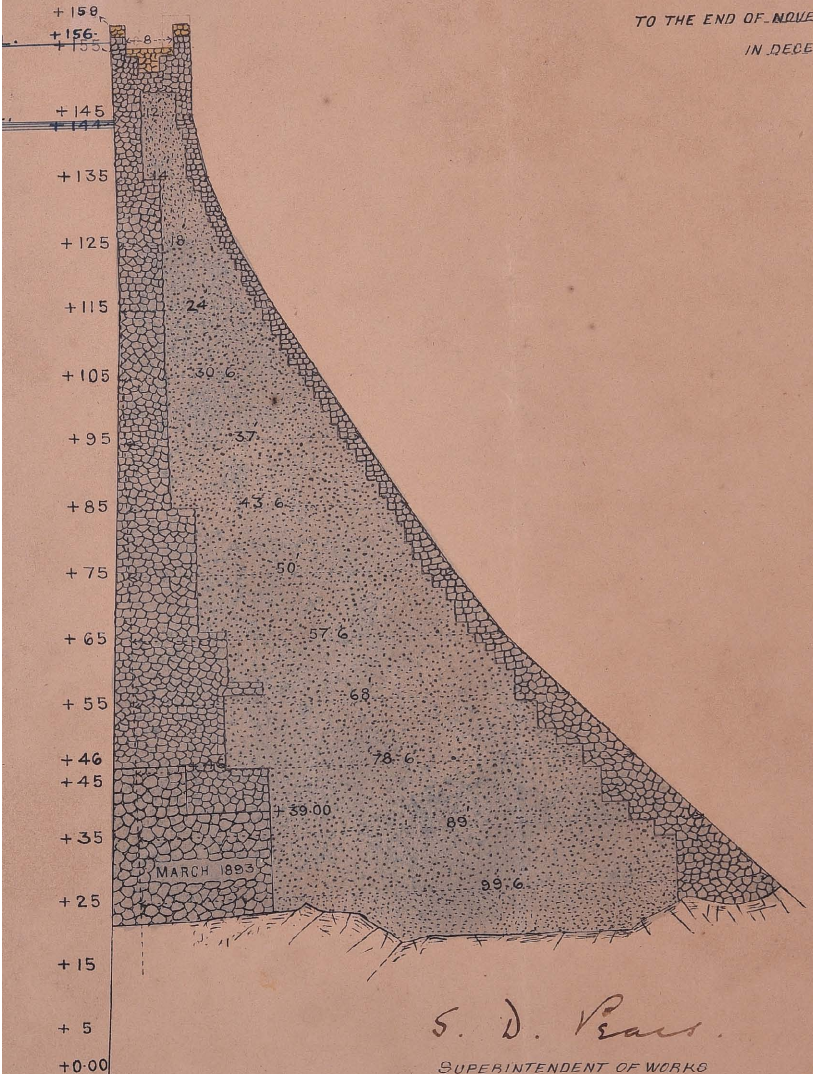
| TO THE END OF NOVEMBER 1895 | | |
| IN DECEMBER DO | | |




S. D. Pears.

SUPERINTENDENT OF WORKS
No I PERIYAR DIVISION

Litho Survey Office, Madras, 1893

Reg: No. 858. Copies 150

P.W.
30/9/

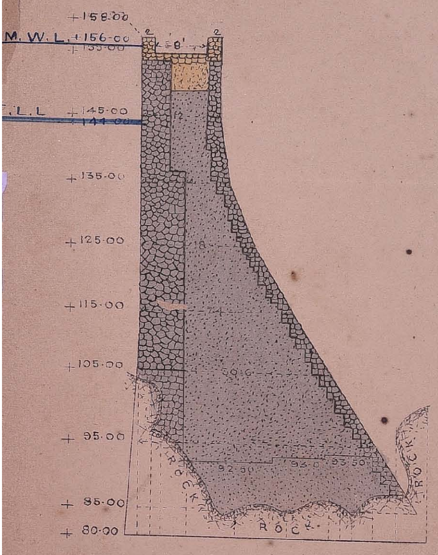
# PERIYAR PROJECT WORKS.

## MAIN DAM

### CROSS SECTION ON I. J.

Scale 20 feet to 1 inch

To accompany progress report
for DECEMBER 1895




S. D. Sears.
SUPERINTENDENT OF WORKS
No 1 PERIYAR DIVISION.

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Zinco. Survey Office, Madras.
1895

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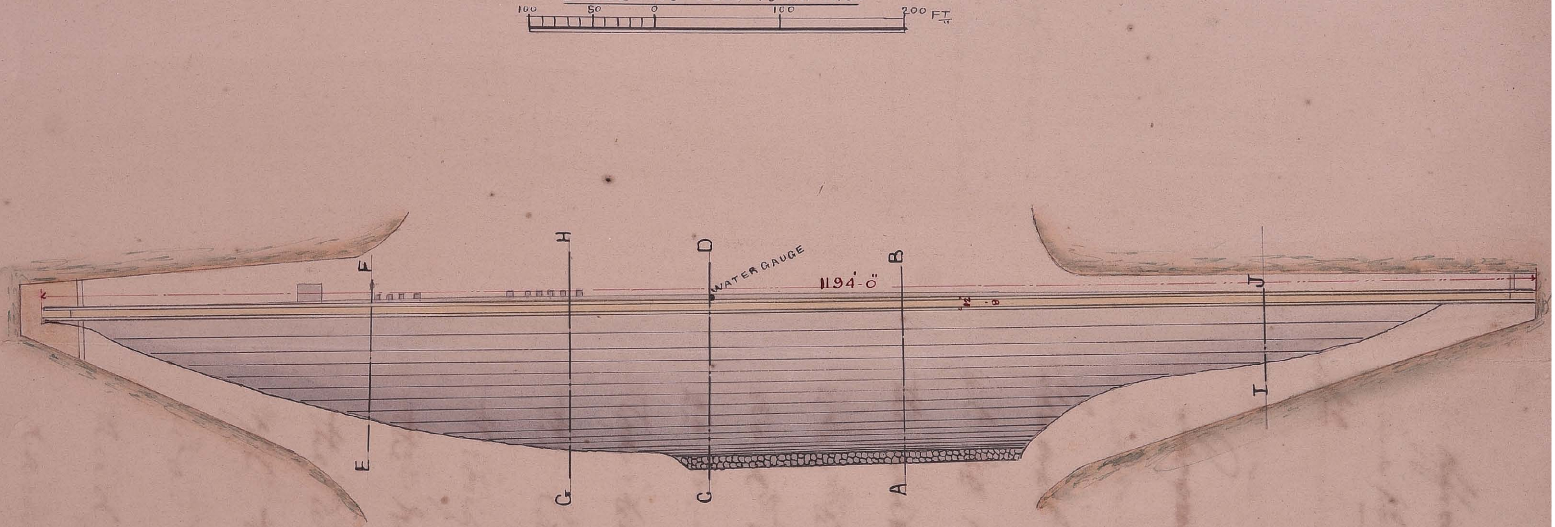
304/9

# PERIYAR PROJECT WORKS

## PLAN OF MAIN DAM

SCALE 100 FEET TO AN INCH




S. D. Pears.

SUPERINTENDENT OF WORKS
No. I PERIYAR DIVISION.

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1 Prev

Office of Supdt of Works
No. I Derizar Division

No. 1756-2. Derizar 8th January 189

Progress Report for December
1895

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Enclosures
5 Sections in duplicate
1 Sketch — do —
will follow.

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Supdt. of Works
No. I Periyar Divn.

True Copy forwarded to
the Chief Engineer Public
Works Department Madras

S. D. Pears

Supdt. of Works
No. I Periyar Divn.

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during the month

The Superintendent of Works
No. 1 Periyar Division

FOR IRRIGATION.
21 JAN 96
No. ....................

To R2PR

The Chief Engineer
Public Works Dept
Madras

Station Periyar
Dated 8th January 1896
No. 1756-2

Progress report of Works for the month of December 1895. — Submitting

~~forwarded~~ submitted for the information of Govt.

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27/1 [illegible]

Recorded & forwarded to the Govt. Order thereon
Forwarded accordingly.

Recd: 14-1-96
W: 6 plans
in duplicate

6 Plans

No. 339 C d/ 20th January 1896

Transferred to E. G. with reference to the recent proposal to take over the Periyar Project works which has been approved by H. E.

[signature]
18/1/96
W.

CWB
20/1 56

No. 8823 d/ 29-10-95

[signature]
17/1/96

[illegible] 22/1

No. 882 I., 29TH OCTOBER 1895.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

**Irrigation.**

READ—the following paper :—

From S. D. PEARS, Esq., Superintendent of Works, No. I Periyár Project, to the Chief Engineer, Public Works Department, dated Periyár, 15th October 1895, No. 114 C.E.

PROGRESS REPORT FOR SEPTEMBER 1895.

*General.*—The month has been an entirely uneventful one, for which the briefest possible report of progress will suffice.

*Rainfall.*—At Periyár 4·32 inches, at Thekady 1·20 inches, against an average (for six previous years) of 4·58 and 4·15 inches, respectively.

*Health.*—The hospital statistics for the month are given below. The admissions for fever continued to be rather unusually numerous, but in general health the month was an improvement as compared with August.

| Camp. | Average population. | Daily average attendance. | Total treated. | Ratio sick to 1,000 of population. | Deaths. | Ratio deaths to 1,000 of population. |
|---|---|---|---|---|---|---|
| Periyár .. .. .. .. | 3,596 | 105·73 | 1,363 | 379·03 | 7 | 1·94 |

*Main dam.*—The large outturn of rubble in August was further increased in September and the average level of the work advanced by about 9 feet as shown in the accompanying sections. The actual quantities put in during the month were—

| | C. FT. |
|---|---|
| Concrete ... ... ... ... ... ... ... ... | 49,339 |
| Rubble ... ... ... ... ... ... ... ... ... | 98,894 |
| Total ... | 148,233 |

The thickness of the work has now nearly diminished to its minimum of 12 feet, and the difficulty of laying concrete in the narrow passage between the rubble front and rear walls while maintaining in the same passage the heavy traffic connected with the rubble is becoming such that it will probably be necessary before long to stop the concrete work altogether and to complete the dam with rubble only, at first carrying traffic along the front and rear walls while the core is built up, and then carrying the traffic along the middle while the front and rear are advanced.

*Left bank escape.*—The rubble front wall of this work was taken up to + 143 during the month and the concrete and rubble behind it to an average of + 132. The Chief Engineer's decision in regard to the fault in the site of the proposed rear wing of this work noticed in last month's report, was that the wing should be abandoned and the earth, which it was to have held up, allowed to take its own slope ; the work has accordingly been pursued on these lines, and 69,532 cubic feet of earthwork was accomplished towards the filling in in rear of front wing. The quantities added to the body of the work were—

| | C. FT. |
|---|---|
| Rubble ... ... ... ... ... ... ... ... ... | 44,584 |
| Concrete ... ... ... ... ... ... ... ... ... | 15,837 |
| Total ... | 60,421 |

The same considerations with regard to the abandonment of a concrete core at the higher levels apply here as on the main dam.

*Watershed tunnel.*—The measuring weir at the north end of the tunnel was finished during the month under review. The main gates of the regulating sluices were advanced a stage nearer to completion, but will not be ready for use before December. The subsidiary gates, however, designed to facilitate the repairs of the main gates were practically completed and will be ready for use on the date fixed for the opening of the works by His Excellency the Governor of Madras.

*Miscellaneous.*—The launch purchased recently from Messrs. Burn and Co., and propelled by an eight-brake horse-power oil-engine constructed by Messrs. Vosper and Co., Portsmouth, was completed and brought into use during September. Both boat and engine worked very satisfactorily on the whole, notwithstanding a few defects of constuction in the engine, which will shortly be reported on separately.

---

*Note by the Chief Engineer, Public Works Department.*

Submitted for the consideration and orders of Government.

2. The formal opening of the works having taken place during October, the report for that month which will be due shortly will form a convenient occasion for a review of the whole operations and of the services of the officers employed therein; it is therefore unnecessary to remark on the present report, further than to notice that the progress continues eminently satisfactory, the total quantity of work executed in the main dam and left bank escape—the latter being now practically a continuation of the former—exceed that of any previous month, having for the first time exceeded 200,000 cubic feet.

(Signed) J. PENNYCUICK, Col., R.E.,
Chief Engineer, P.W.D.

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ORDER—No. 882 I., dated 29th October 1895.

Recorded and forwarded to the Government of India.

[Here enter No. 883 I., dated 29th October 1895.]

(True Extract.)

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Secretary to Govt., P.W.D.

To the Superintendent of Works, Periyár Project.
,, Chief Engineer for Irrigation.
,, Revenue Department.

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**G.O. No. 882 I., 29th Oct. 1895.**

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**Periyar Project**

Progress report of works in No. I Periyár division for September 1895, recorded and ordered to be forwarded to the Government of India.